

FCC Test Report

Applicant : Homerunpet Inc

Address : Homerunpet Inc. 18th St. Cheyenne, WY
82001

Product Name : Wireless Pet Water Fountain

Report Date : May 07, 2024

Shenzhen Anbotech Compliance Laboratory Limited



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TEST REPORT

Applicant : Homerunpet Inc

Manufacturer : Shenzhen Qianhai Homerun Smart Technology Co., Ltd

Product Name : Wireless Pet Water Fountain

Test Model No. : BF10

Reference Model No. : N/A

Trade Mark : N/A

Rating(s) : Input: 5V $\Rightarrow$ 2A
Battery Capacity: DC 3.7V, 7800mAh

Test Standard(s) : FCC Rules and Regulations Part 18 Subpart C

Test Method(s) : FCC/OST MP-5: 1986

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 18 Subpart C limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited

Date of Receipt:

Mar. 08, 2024

Date of Test:

Mar. 08, 2024 to May 07, 2024

Prepared By:



(Ella Liang)

Approved & Authorized Signer:



(Edward Pan)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	May 07, 2024

1. General Information

1.1. Client Information

Applicant	:	Homerunpet Inc
Address	:	Homerunpet Inc. 18th St. Cheyenne, WY 82001
Manufacturer	:	Shenzhen Qianhai Homerun Smart Technology Co., Ltd.
Address	:	Room 201, Building A, No.1 Qianwan 1st Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong Province, China
Factory	:	Shenzhen Qianhai Homerun Smart Technology Co., Ltd.
Address	:	Room 201, Building A, No.1 Qianwan 1st Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	:	Wireless Pet Water Fountain
Test Model No.	:	BF10
Reference Model No.	:	N/A
Trade Mark	:	N/A
Test Power Supply	:	DC 5V from Adapter input AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	130KHz~205KHz
Modulation Type	:	FSK
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0dBi
Remark: (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Energy transmission Mode

For Conducted Emission	
Final Test Mode	Description
Mode 1	Energy transmission Mode

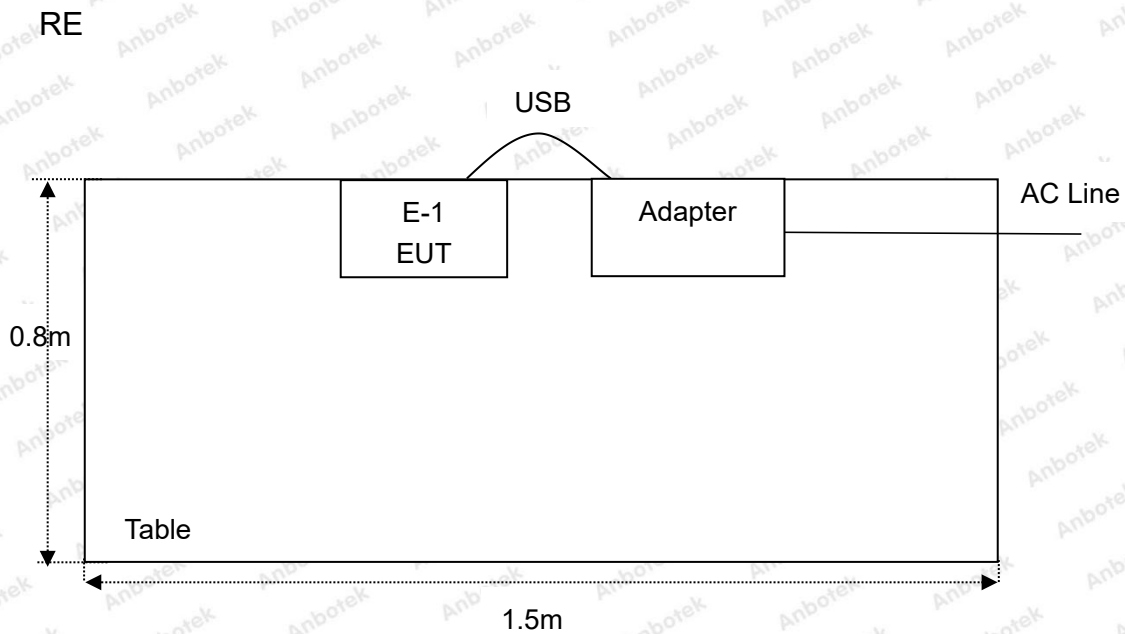
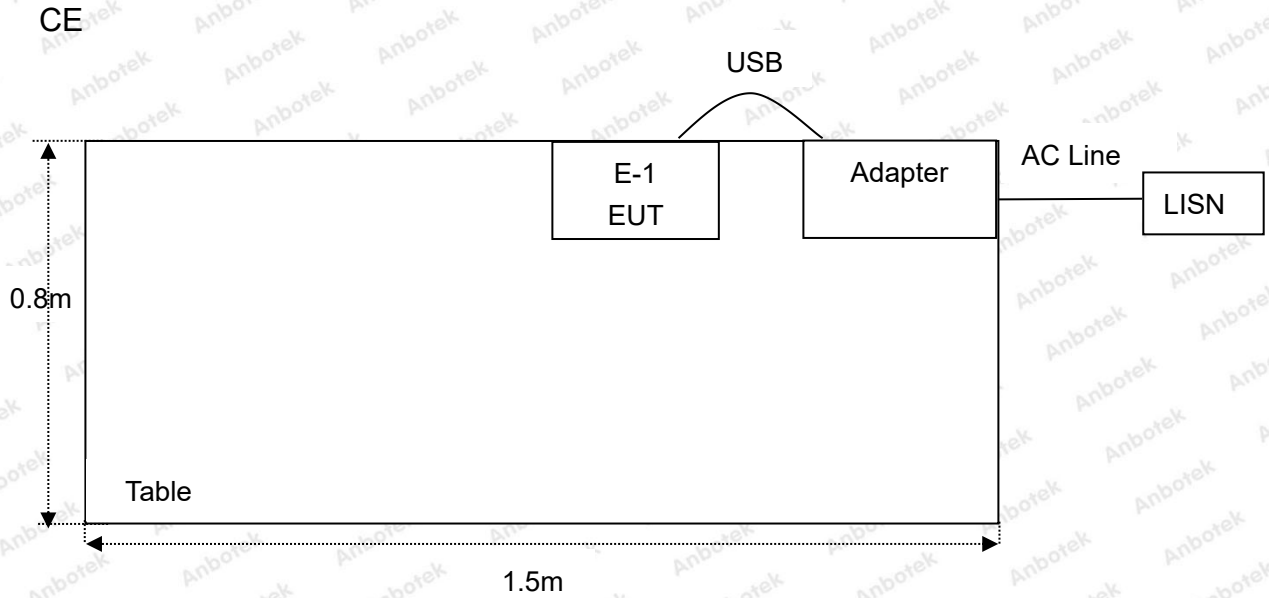
For Radiated Emission	
Final Test Mode	Description
Mode 1	Energy transmission Mode

Note:

(1) Test channel is 0.1392MHz.



1.5. Description Of Test Setup



1.5. Test Summary

Standard Section	Test Items	Test Mode	Status
§18.307 (b)	Power Line Conducted Emission Test (150KHz To 30MHz)	Mode 1	P
§18.305 (b)	Radiated Emission Test (9KHz To 30MHz)	Mode 1	P
P) Indicates "PASS". N) Indicates "Not applicable".			



1.6. Test Equipment List

Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3.	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
4.	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2.	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4.	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
5.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	2023-10-12	2024-10-11



1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.



2. Power Line Conducted Emission Test

2.1. Test Standard and Limit

Test Standard	FCC Part 18 Subpart C
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Power Line Conducted Emission Measurement Limits (All Induction cooking ranges and ultrasonic equipment:)

Test Limit	Frequency of emission (MHz)	Conducted limit (dBμV)	
		Quasi-peak Level	Average Level
	0.15 ~ 0.5	66 ~ 56*	56 ~ 46*
	0.5 ~ 5.0	56	46
	5.0 ~ 30	60	50

Remark: (1) The lower limit shall apply at the transition frequencies.
(2) * Decreasing linearly with logarithm of frequency.

2.2. Test Setup



2.3. EUT Configuration on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

2.4. Operating Condition of EUT

2.4.1. Setup the EUT as shown in Section 2.2.

2.4.2. Turn on the power of all equipments.

2.4.3. Let the EUT work in test mode and measure it.



2.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver (R&S ESCI) is set at 200Hz in 9K~150KHz range and 9KHz in 150K~30MHz range.

The frequency range from 150KHz to 30MHz is checked.

All the test results are listed in Section 2.6.

2.6. Test Results

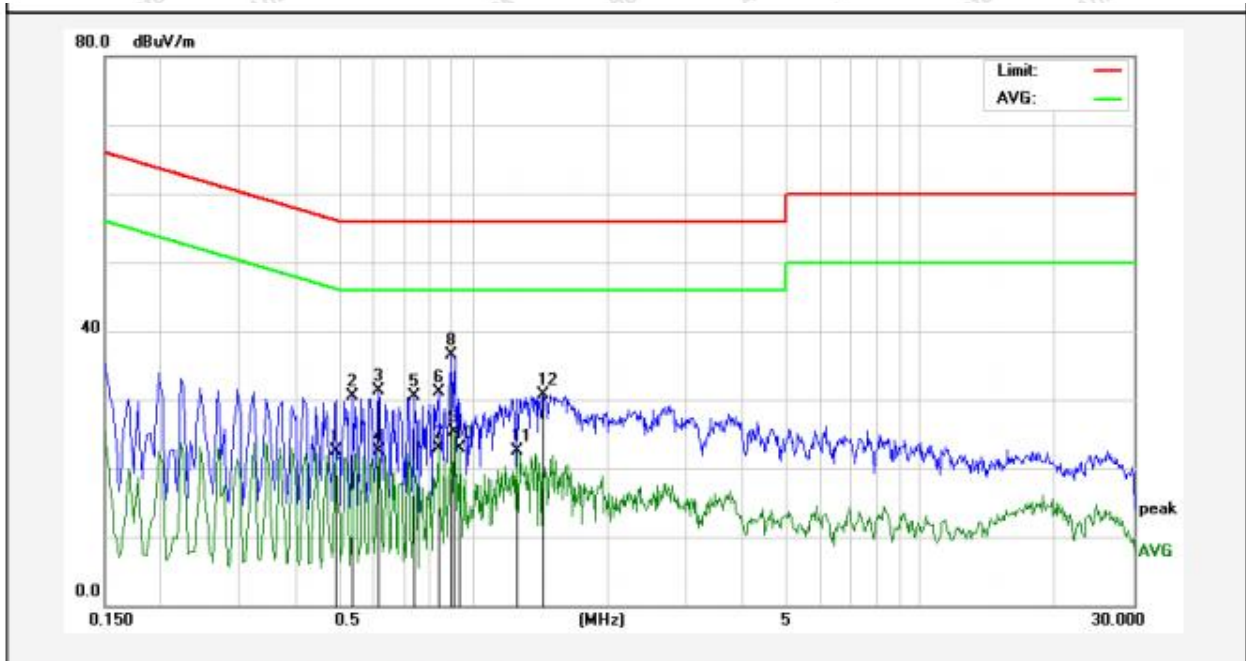
PASS

The test curves are shown in the following pages.



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: DC 5V from Adapter input AC 120V/60Hz
 Comment: Live Line
 Temp.(°C)/Hum.(%RH): 28°C/51%RH

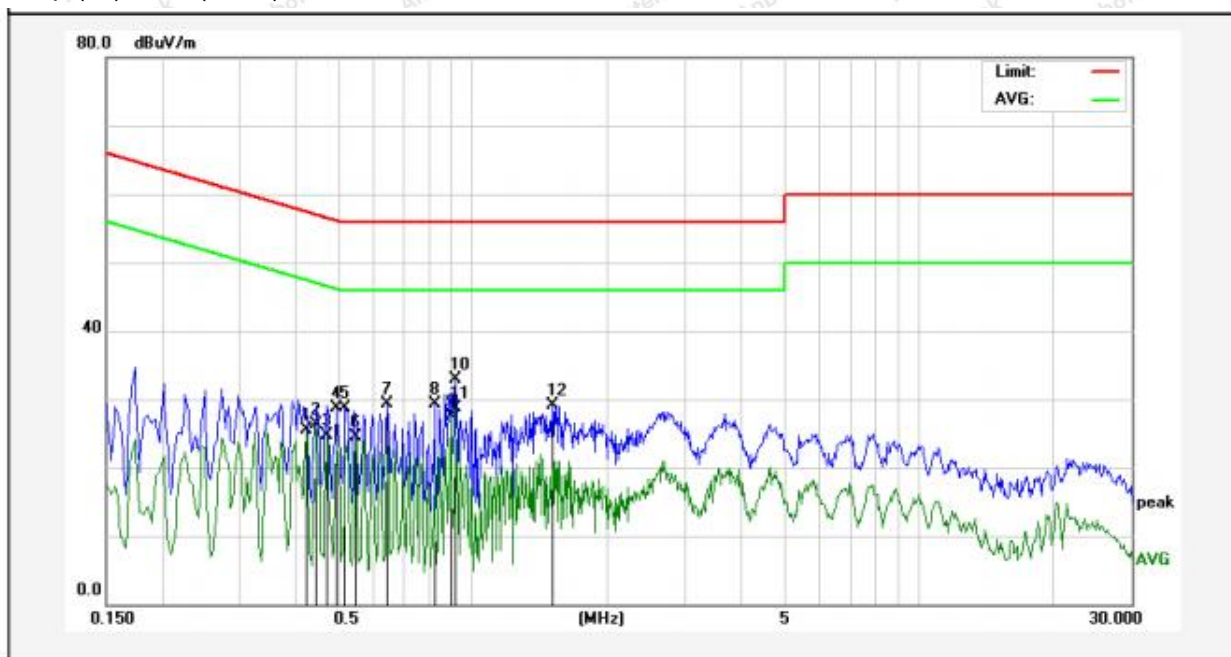


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	0.4940	12.57	9.86	22.43	46.10	-23.67	AVG	
2	0.5380	20.55	9.86	30.41	56.00	-25.59	QP	
3	0.6140	21.46	9.87	31.33	56.00	-24.67	QP	
4	0.6140	12.62	9.87	22.49	46.00	-23.51	AVG	
5	0.7380	20.71	9.87	30.58	56.00	-25.42	QP	
6	0.8380	21.18	9.87	31.05	56.00	-24.95	QP	
7	0.8380	12.99	9.87	22.86	46.00	-23.14	AVG	
8	0.8980	26.61	9.86	36.47	56.00	-19.53	QP	
9	0.9060	15.42	9.86	25.28	46.00	-20.72	AVG	
10	0.9380	13.09	9.86	22.95	46.00	-23.05	AVG	
11	1.2500	12.65	9.85	22.50	46.00	-23.50	AVG	
12	1.4340	20.82	9.86	30.68	56.00	-25.32	QP	



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: DC 5V from Adapter input AC 120V/60Hz
 Comment: Neutral Line
 Temp.(°C)/Hum.(%RH): 28°C/51%RH



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	0.4220	15.75	9.82	25.57	47.41	-21.84	AVG	
2	0.4460	16.52	9.83	26.35	46.95	-20.60	AVG	
3	0.4700	14.94	9.85	24.79	46.51	-21.72	AVG	
4	0.4940	18.82	9.86	28.68	56.10	-27.42	QP	
5	0.5180	18.86	9.86	28.72	56.00	-27.28	QP	
6	0.5460	14.61	9.86	24.47	46.00	-21.53	AVG	
7	0.6419	19.51	9.87	29.38	56.00	-26.62	QP	
8	0.8180	19.47	9.87	29.34	56.00	-26.66	QP	
9	0.8940	17.58	9.86	27.44	46.00	-18.56	AVG	
10	0.9180	23.13	9.86	32.99	56.00	-23.01	QP	
11	0.9180	18.78	9.86	28.64	46.00	-17.36	AVG	
12	1.5100	19.26	9.85	29.11	56.00	-26.89	QP	

3. Radiated Emission Test (Below 30MHz)

3.1. Test Standard and Limit

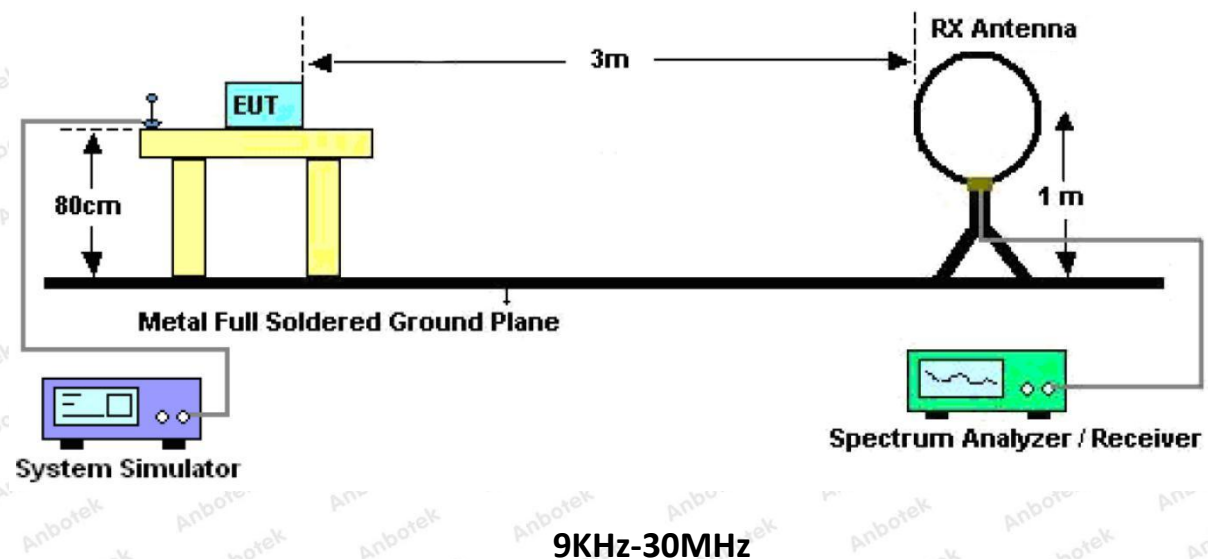
Test Standard	FCC Part 18 Subpart C
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Radiated Emission Test Limit

Equipment	Operating Frequency	RF Power generated by equipment(Watt)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500	25	300
		500 or more	$25 \times \text{SQRT}(\text{power} / 500)$	300 (Note1)
	Any non-ISM frequency	Below 500	15	300
		500 or more	$15 \times \text{SQRT}(\text{power} / 500)$	300 (Note1)

Note: (1) Field strength may not exceed 10 $\mu\text{V/m}$ at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

3.2. Test Setup



3.3. EUT Configuration on Measurement

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.4. Operating Condition of EUT

3.4.1. Setup the EUT as shown in Section 3.2.

3.4.2. Turn on the power of all equipments.

3.4.3. Let the EUT work in test mode and measure it.

3.5. Test Procedure

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the centre of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. Loop antenna was used as receiving antenna. In order to find the maximum emission, all of the interface cables were manipulated according to FCC OST/MP-5 requirement during radiated test.

The IF bandwidth used to measure the radiation signal strength is 200Hz when it is below 150kHz and 9KHz when it is between 150kHz and 30MHz

The frequency range from 9KHz to 30MHz is checked.

The test results are listed in Section 3.6.

3.6. Test Results

PASS

The test curves are shown in the following pages.

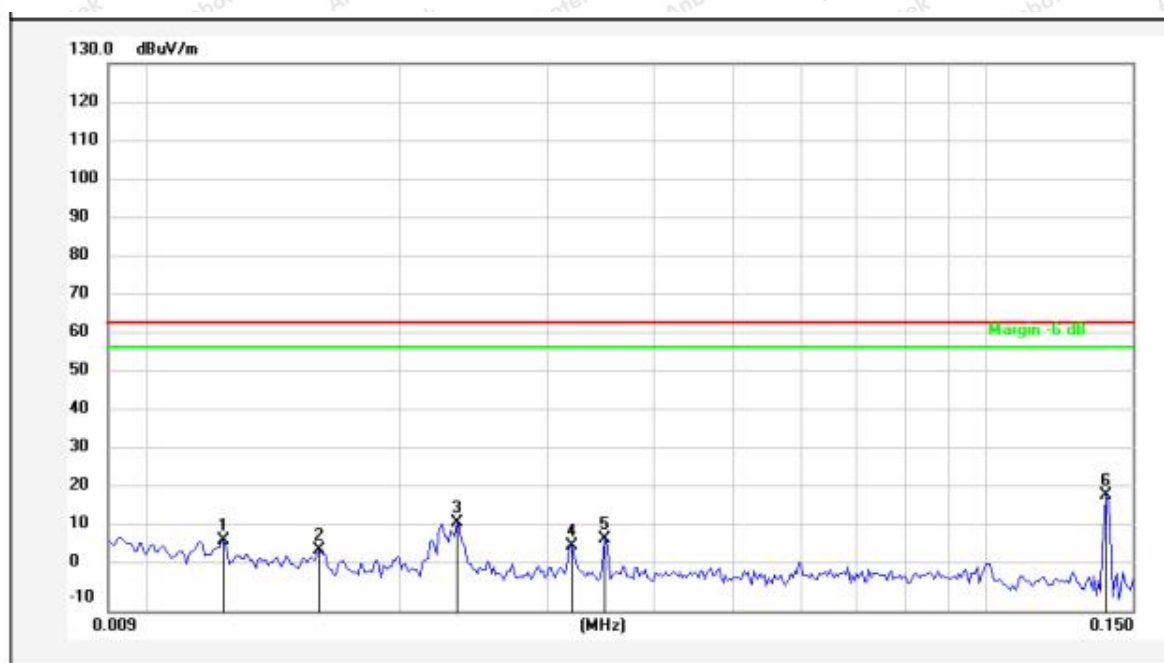


Test item: Radiation Test **Polarization:** X

Standard: (RE)FCC Part 18 Subpart C **Power Source:** DC 5V from Adapter input
AC 120V/60Hz

Distance: 3m **Temp.(°C)/Hum.(%RH):** 22.6(°C)/52%RH

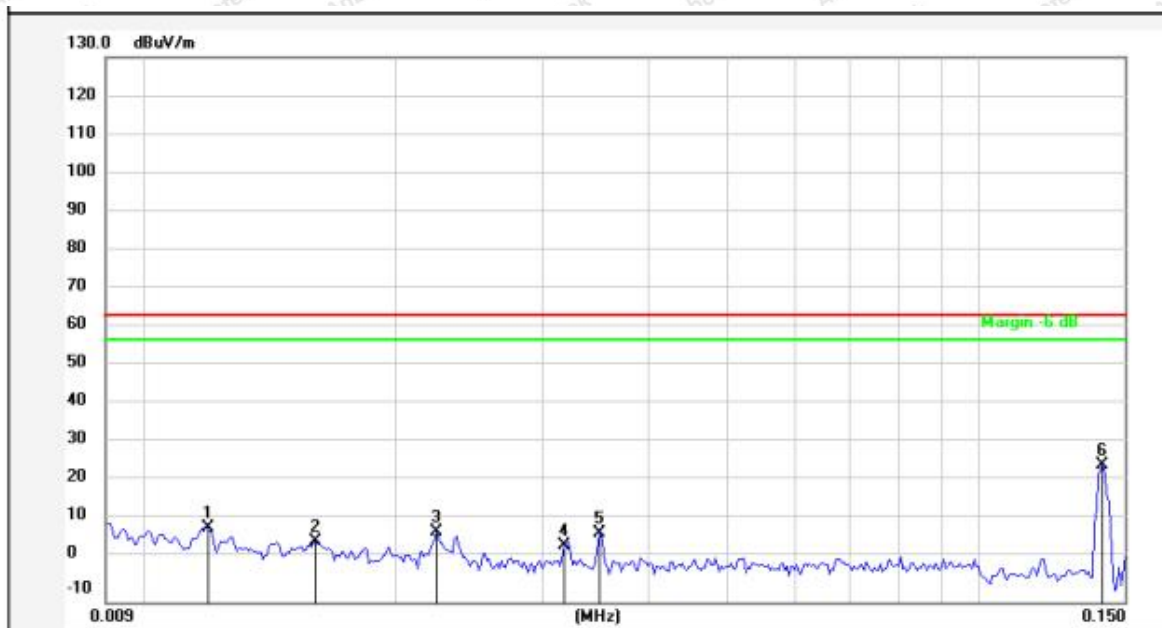
Test Frequency: 9KHz-150KHz



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0123	-12.13	20.12	7.99	63.50	-55.51	QP			
2	0.0160	-14.88	20.30	5.42	63.50	-58.08	QP			
3	0.0234	-7.91	20.37	12.46	63.50	-51.04	QP			
4	0.0320	-13.80	20.56	6.76	63.50	-56.74	QP			
5	0.0350	-12.16	20.49	8.33	63.50	-55.17	QP			
6	0.1392	-0.63	20.33	19.70	63.50	-43.80	QP			

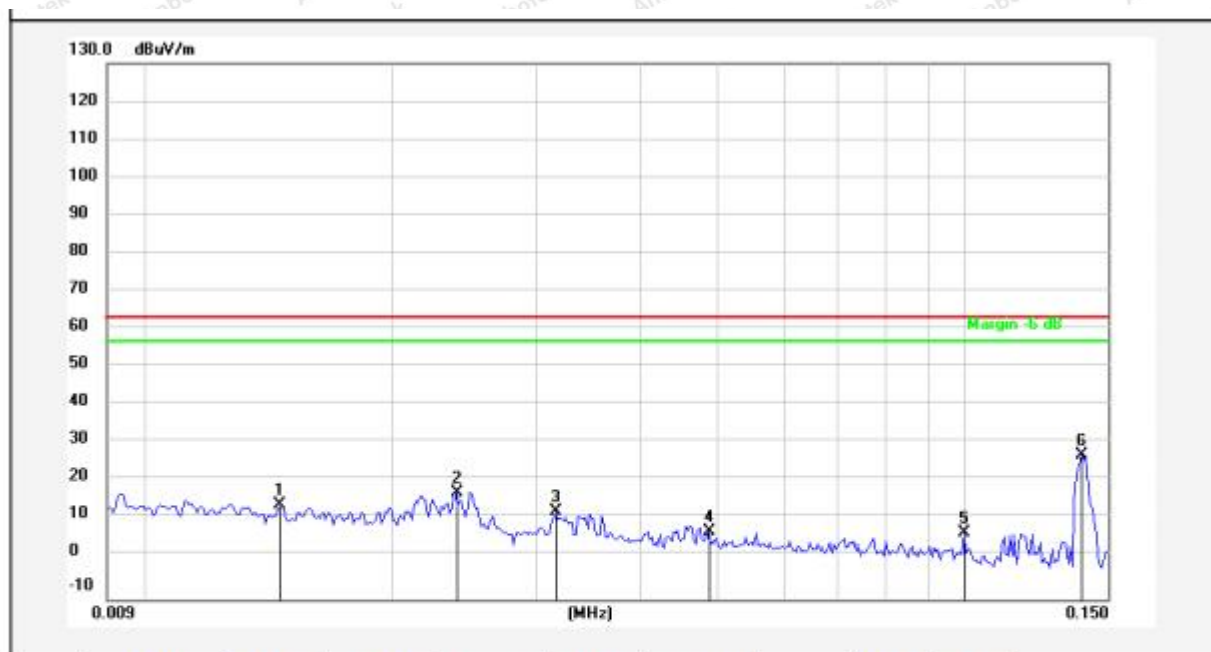
Note: Result=Reading+Factor Over Limit=Result-Limit

Test item: Radiation Test **Polarization:** Y
Standard: (RE)FCC Part 18 Subpart C **Power Source:** DC 5V from Adapter input AC 120V/60Hz
Distance: 3m **Temp.(°C)/Hum.(%RH):** 22.6(°C)/52%RH
Test Frequency: 9KHz-150KHz



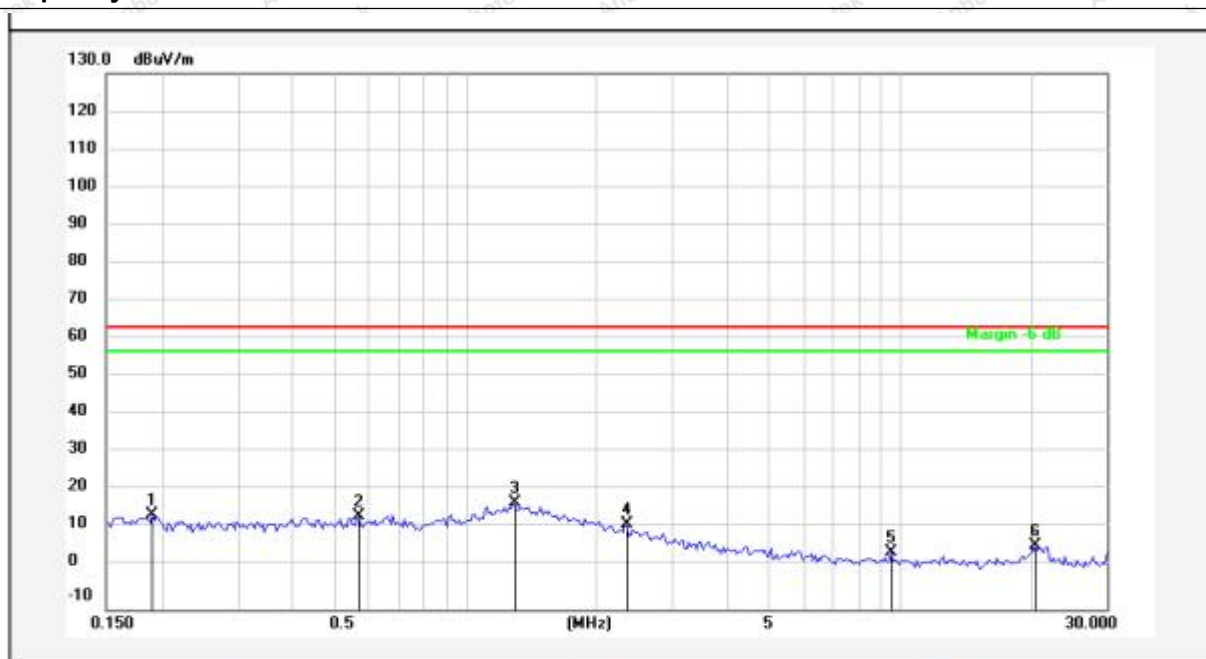
No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0119	-11.05	20.11	9.06	63.50	-54.44	QP			
2	0.0160	-14.57	20.30	5.73	63.50	-57.77	QP			
3	0.0223	-12.35	20.34	7.99	63.50	-55.51	QP			
4	0.0318	-16.05	20.56	4.51	63.50	-58.99	QP			
5	0.0350	-12.71	20.49	7.78	63.50	-55.72	QP			
6	0.1393	4.86	20.33	25.19	63.50	-38.31	QP			

Note: Result=Reading+Factor Over Limit=Result-Limit

Test item: Radiation Test**Polarization:****Z****Standard:** (RE)FCC Part 18 Subpart C**Power Source:****DC 5V from Adapter
input AC 120V/60Hz****Distance:** 3m**Temp.(°C)/Hum.(%RH):** 22.6(°C)/52%RH**Test****Frequency:** 9KHz-150KHz

No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0146	-5.49	20.25	14.76	63.50	-48.74	QP			
2	0.0240	-2.62	20.38	17.76	63.50	-45.74	QP			
3	0.0316	-7.70	20.56	12.86	63.50	-50.64	QP			
4	0.0487	-12.89	20.42	7.53	63.50	-55.97	QP			
5	0.1000	-12.98	20.29	7.31	63.50	-56.19	QP			
6	0.1392	7.47	20.33	27.80	63.50	-35.70	QP			

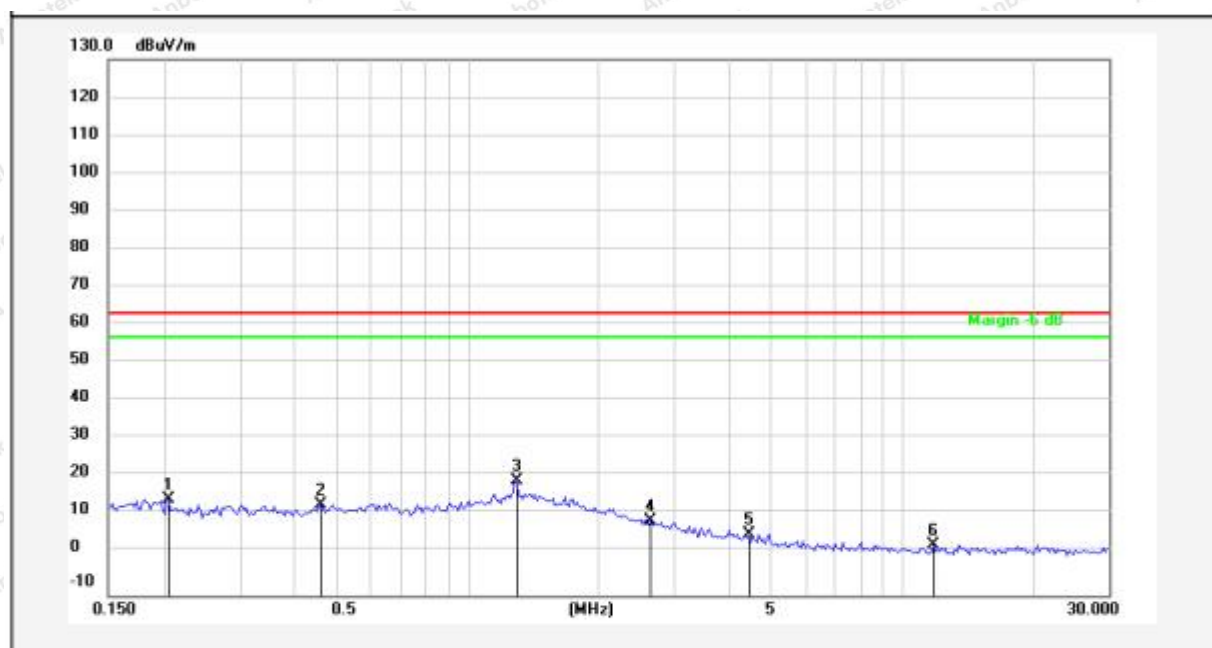
Note: Result=Reading+Factor Over Limit=Result-Limit

Test item: Radiation Test**Polarization:****X****Standard:** (RE)FCC Part 18 Subpart C**Power Source:****DC 5V from Adapter
input AC 120V/60Hz****Distance:** 3m**Temp.(°C)/Hum.(%RH):** 22.6(°C)/52%RH**Test****Frequency:** 150KHz-30MHz

No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.1914	-5.58	20.32	14.74	63.50	-48.76	QP			
2	0.5701	-6.10	20.28	14.18	63.50	-49.32	QP			
3	1.2892	-2.47	20.26	17.79	63.50	-45.71	QP			
4	2.3336	-8.18	20.29	12.11	63.50	-51.39	QP			
5	9.5518	-15.73	20.51	4.78	63.50	-58.72	peak			
6	20.2696	-14.04	20.59	6.55	63.50	-56.95	peak			

Note: Result=Reading+Factor Over Limit=Result-Limit

Test item: Radiation Test **Polarization:** Y
Standard: (RE)FCC Part 18 Subpart C **Power Source:** DC 5V from Adapter input AC 120V/60Hz
Distance: 3m **Temp.(°C)/Hum.(%RH):** 22.6(°C)/52%RH
Test Frequency: 150KHz-30MHz



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.2061	-5.43	20.31	14.88	63.50	-48.62	QP			
2	0.4612	-6.60	20.27	13.67	63.50	-49.83	QP			
3	1.2892	-0.47	20.26	19.79	63.50	-43.71	QP			
4	2.6500	-10.99	20.29	9.30	63.50	-54.20	QP			
5	4.4071	-14.42	20.39	5.97	63.50	-57.53	QP			
6	11.8070	-17.43	20.53	3.10	63.50	-60.40	QP			

Note: Result=Reading+Factor Over Limit=Result-Limit

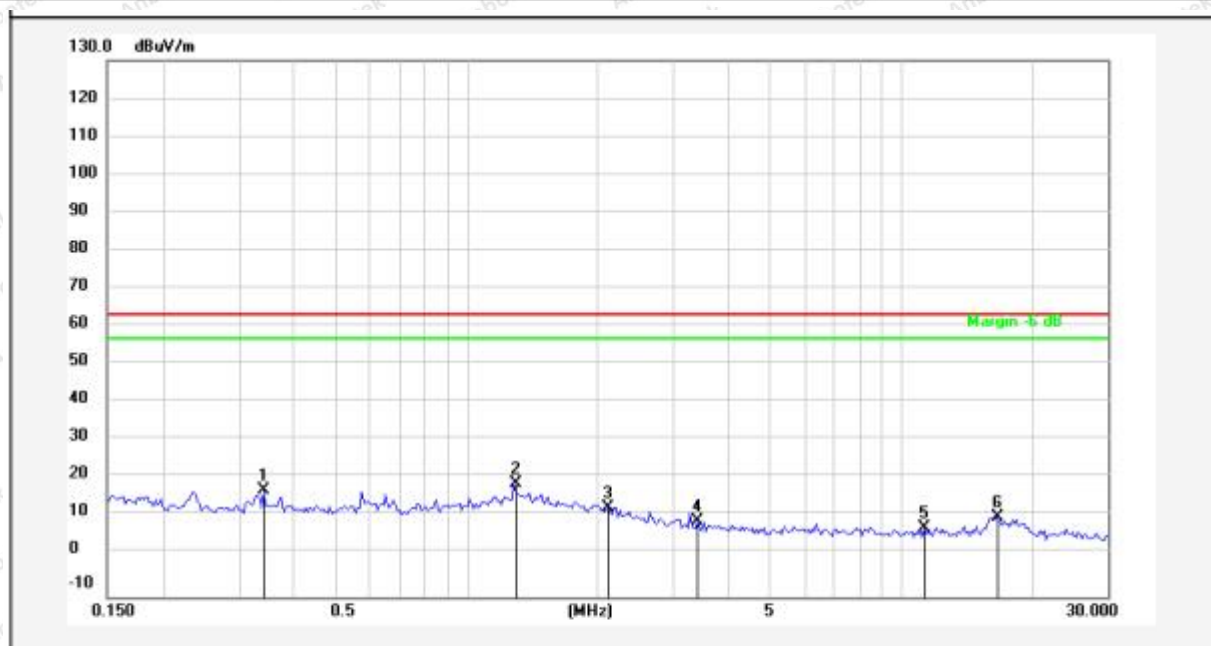


Test item: Radiation Test **Polarization:** Z

Standard: (RE)FCC Part 18 Subpart C **Power Source:** DC 5V from Adapter input AC 120V/60Hz

Distance: 3m **Temp.(°C)/Hum.(%RH):** 22.6(°C)/52%RH

Test Frequency: 150KHz-30MHz



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.3427	-2.44	20.29	17.85	63.50	-45.65	QP			
2	1.2892	-0.64	20.26	19.62	63.50	-43.88	QP			
3	2.1213	-6.83	20.28	13.45	63.50	-50.05	QP			
4	3.4174	-10.41	20.33	9.92	63.50	-53.58	QP			
5	11.3170	-12.37	20.53	8.16	63.50	-55.34	QP			
6	16.5732	-9.58	20.55	10.97	63.50	-52.53	QP			

Note: Result=Reading+Factor Over Limit=Result-Limit

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_WPT

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

